

### MISSOURI DEPARTMENT OF NATURAL RESOURCES

## MISSOURI OIL AND GAS COUNCIL APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATIO	N TO DRILL	☐ DEEPEN		S BVCK	[X] E	OR AN OIL	WELL 12	OR GAS WELL
		L DELI EN		J DACK	24 1	ON AN OIL		2 OII GAS WELL
PEACE RO	~	PULLUG	on Tur.				DATE 12/2	3/92
ADDRESS 800	NEWBER	RILLING ( RY STREET	CITY				STATE	ZIP CODE
×	BOX 551		TREDE	ERICKTO	wn,	MD	mo	63695
DESCRIPTION O	OF WELL AND	LEASE	WELL NUMBER	<u> </u>			ELEVATION (GROUND)	
J. Snir	-14		WEEE NOMBER	#3			99	O (TOPA)
WELL LOCATION			(GIVE FOOTAGE					
		+- FT. FROM (屬)(S		2403 +		FROM (多) (W)	SECTION LINE	
WELL LOCATION	SEC	TION	TOWNSHIP	. /	RANGE 33L	h/	COUNTY	
SE/4 SW/		23	441	/ 23			CASS	
NEAREST DISTANCE						FEET	SAMELEASE	1894 ' FEET
PROPOSED DEPTH	DBH	LING CONTRACTOR, NAME ALSE BORDS.	E AND ADDRESS	C.		CABLE TOOLS	APPROX. DATE WORK	
1200'	Box	551 FREDERI		63645	ROTA	RU(AIR	on t	ERMIT
NUMBER OF ACRES IN LE	ASE NUM	MBER OF WELLS ON	LEASE, INCLUDING	THIS WELL,	COMPLETI	ED IN OR DRIL	LLING TO THIS RES	SERVOIR 3
260		MBER OF ABANDONI					Т	
IF LEASE PURCHASE	D WITH ONE OR	MORE WELLS DRILL	ED, FROM WHOM P	URCHASED?			NO. OF WELLS: P	
ADDRESS		NA	<b>_</b>					INACTIVE 1
ADDRESS							Al	BANDONED 1
STATUS OF B	OND	SINGLE WELL			☑ BL	ANKET BO	ND OO	A ON FILE
		AMOUNT \$				OUNT \$20	0,000=	PRODUCING ZONE AND
PROPOSED CASIN		I WITTET	0514					ATE GEOLOGIST
AMOUNT CA'	SIZE	WT/FT	CEM.	AMOUN "	-	SIZE	WT/FT	CEM.
HED TO SUNF	4/11	1/1/13	10 248/-	(4		1.	(1	h
14.1.2411	7.7	10/200	10 300					
I, the undersigned	d, state that I a	m the ASST	· V.P.		of	the Tens	e Bros Dr	g Co, Inc.
								nder my supervision
and direction and	that the facts	stated therein ar	e true, correct, a	and comple	te to the	best of my	knowledge.	
SIGNATURE	1 /	Level					DATE	
R.	F. BLA	WCETT, ASS	T. U.P.				12/23/	92
PERMIT NUMBER	and the second second second	A cob	DRILLEF	R'S LOG REQU	IRED	☑ E	-LOGS REQUIRED	IF RUN
	2055	) 6		NALYSIS REQ			/	NFO. REQUIRED IF RUN
APPROVAL DATE	174/97		SAMPLE	S REQUIRED	- x		DEC 2 4 19	192
APPROVED BY	127/12		V   [7]	S NOT REQU		777	DE0 E 1 10	
Jane	- today	of the state of the	- WATER	SAMPLES REC		_	0:10 0	<i>r</i>
NOTE THIS	PERMIT NO TRA	NSFERABLE TO AN	OTHER PERSON C	OR TO ANY OT	HER LOCA	OMIOITA	Oil & Gas	Counc.
APPROVAL OF THIS WELL NOR ENDORSE	PERMIT BY THE	OIL AND GAS COL	INCIL DOES NOT C	CONSTITUTE	ENDORSE	MENT OF TH	E GEOLOGIC MER	ITS OF THE PROPOSED
			of the					Company confirm
that an approved on this form by p			ained by the ov					ermit will be shown
DRILLER'S SIGNATURE	•						DATE	
								The post of the first of



MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI OIL AND GAS COUNCIL

INJECTION WELL PERMIT APPLICATION (TO DRILL, DEEPEN, PLUG BACK, OR CONVERT AN EXISTING WELL)

		iewed and official no					
NAME OF COMPANY	TION TO DRI	LL C DEEF	PEN [	PLUG BACK		CONVERSION	N
0 -		2 11 12 0	-			DATE/_	- /
ADDRESS FOR	NEWBER	DRILLING CO.		TY		STATE 7/2	2/93
7.0.	BOX 55	1		FREDERICKTO	wx	MO	21P CODE
DESCRIPTIO NAVE OF LEASE	N OF WELL A	IND LEASE	distribution of				63645
VAVEOFIEASE				ELL NUMBER	# 3	ELEVATION (GROUND)	The second secon
MEL LOCATION	4).	ITH, ET 4X	(GIVE FOOT	20557	5	99	0
	235	FT. FROM (4)		2405			
WELL LOCATION	,	SECTION	TOWNSHIP	RANGE	F . F	COUNTY (W') SEC. L	INE
SE/4 SE/	45W/4	22	44N	33W		CASS	
NEAREST DISTAN	ICE FROM PROP	OSED LOCATION TO PR	OPERTY OR LE	ASELINE 235	FEET		
PROPOSED DEPTH	PROPOSED LOC	CATION TO NEAREST DR	ILLING, COMPL	ETED OR APPLIED — FOR	WELL ON THE SA	ME LEASE 18	93FEET
			PENSE A	BROS. DRG. CO., I	nc.	APPROX. DATE WORK W	ILL START
1020	0	ROTARY (AIR	DOX 55	EXCKTOWN M		01/ 11 75	
NUMBER OF ACRES IN	LEASE	NUMBER OF WELLS ON	LEASE, INCLUD	ING THIS WELL, COMPLET	SED IN CRIDRILL	ON APP	ROOA L
		NUMBER OF ABANDONE	D WELLS ON LE	EASE/		VG TO THIS RESER	VOIR
	SED WITH ONE	OR MORE WELLS DRILL	ED, FROM WHO	M PURCHASED?	NO.	OF WELLS: PROD	UCING 2
ADDRESS			17				CTION
					13	egged) ABANE	ACTIVE
		☐ SINGLE WELL		BLANKET BOND	1(/2	ACAINE	Ø ON FILE
STATUS OF	BOND	AMOUNT \$		AMOUNT \$ 20,0	200=		☐ ATTACHED
	-150001	,			1 1 1 1 1 1	ER TINEINT	•
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ROPOSED CAS	ING PROGRAM	ATION ACCON	NANIES	APPLICATION	1.		
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POPOSED CAS	ING PROGRAM	ATION ACCON	AMT. OF CE	APPLICATION APPROVED CASIN M. AMOUNT 25 50'	IG — TO BE FILI	ED IN BY STATE	GEOLOGIST  AMT. OF CEM.
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		of the		
Company confirm that an approved divide shown on this form by presence	rilling permit has been o	btained by the	owner of this well. Council approv	al of this perm
DRILLER'S SIGNATURE	political and			
		DATE		
PROPOSED OPERATIONS DATA				
PROPOSED AVERAGE DAILY INJECTION,	PRESSURE 300	PSIG, RATE .	5000 BPD GPM, VOLUME	
APPROVED AVERAGE DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST).	PRESSURE	PSIG, RATE .	BPD/GPM, VOLUME	
PROPOSED MAXIMUM DAILY INJECTION,	PRESSURE 600	PSIG, RATE	15,000 (SPD) GPM. VOLUME_	BBL/GA
APPROVED MAXIMUM DAILY INJECTION, (TO BE FILLED IN BY STATE GEOLOGIST).	PRESSURE 600	PSIG, RATE		BBL/GA
ESTIMATED FRACTURE PRESSURE/GRADIENT C	OF INJECTION ZONE		BPD/GPM, VOLUME	BBL/GA
DESCRIBE THE SOURCE OF THE INJECTION FLU	מונ			PSI/FOO
NOTE SUBMIT AN APPROPRIATE ANALYSIS DESCRIBE THE COMPATIBILITY OF THE PROPOSE COMPARISONS.	S OF THE INJECTION FLUID. (	SUBMIT ON SEPA	RATE SHEET)	
PROPOSED KINDERHOOK U	SEAM FLUID 15	RUNNING	GAPPROX. 12,000 + PP	M 02 7DS
DOM AT TO	( COURT	IDIV ITAET	1) 13 GREATER 1.49N 10,	,000 t
PPM &F TDS  GIVE AN ACCURATE DESCRIPTION OF THE INJE  AND PERMEABILITY.	07104170417			
THE KINDERHOOK INT WITH 12% PRIMARY, THE ZONE OF DISPOSA	FERVAL TO BE	USED FOR	DISPOSAL IS A DOL	OMITE
BETWEEN THE INTECTION	N INTERVAL +f	RODUCING	FEUNSYLVANIAN F	DEPTH, POROSITY,
THE WAREA THERE IS	APPROXIMATEL	200'	OF DENSE LIMESTON	EOF
THE WARSAW FORMATION, WIT	THE LITTLE OR N	O FOROS	TY OR PERMEABILI	79-
DELOW The PERFORATED IN UBMIT ALL AVAILABLE LOGGING AND TESTING	DATA ON THE WELL	20%. 15 0	F LIMESTONE 16, 44 / TO 27	TORESITY.
IVE A DETAILED DESCRIPTION OF ANY WELL MILE RADIUS AROUND WELL). INCLUDE THE RE	NEEDING CORRECTIVE ACT	ION WHICH PENE CORRECTIVE AC	ETRATES THE INJECTION ZONE IN THE A	REA OF REVIEW
NO OTHER WEAL	5 IN 1/2 mi	LE RADIA	125 PENETRATING	
			+/DR INJECTION	,
		*	RECEIV	
		***************************************	عود دو الل	TU-

MO Oil & Gas Council

MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI OIL AND GAS COUNCIL

INJECTION WELL LOCATION PLAT

FORM OGC-4-L

OWNER									
PENSE BROTHERS DE	PILLING	· Co., ~	NC.	9		COUNTY		* 7	
J.W. SMITH ET L	17					CAS		'v	
235 FEET FROM SECTIO	N LINE AND	2405 FE	ET FROM	W SEC	TION LINE	OF SEC. 23	TWP.	₩¥.N.,	RANGE 33
N							3		
					1.0				
	7						- A 50		
					- 41				
	+								
SCALE 1" =				NOTE:	SEE A	MACHED	DESCR	PTION	
SURVEY DESCRIP NO WELLS WITHIN; PENETRATE THE	_					TECT U	JELL T	HAT	
On the above plat, show distant the two nearest section lines, the the nearest well on the same I	ence of the	proposed v	well from	This is locate in radius of in accord	s to Certi jection ar the inject dance wi	nd area of rection well the	eview wells at penetrat 50-2.030 a	e the inje	to accurately ithin a ½ mile ction interval) ne results are

REGISTERED LAND SURVEYOR

MO 780-1136 (10-87)

lines must be marked.

to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease

REMIT **TWO** COPIES TO: MISSOURI OIL AND GAS COUNCIL P.O. BOX 250, ROLLA, MISSOURI 65401



# MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI OIL AND GAS COUNCIL INJECTION WELL SCHEMATIC

COUNTY PERMIT NUMBER WELL NUMBER **OPERATOR** Cass Pense Brothers Smith #3 **DENNIS** SPUD DATE: 12/30/92 LOG DATE: 1/6/93 **SWOPE** CEMENTED W/ 129 sacks HERTH A circulated to surface: 1/6/93 CEMENT BOND LOG: 5/7/93 KNOBTOWN SS MULBERRY PAWNEE FT. SCOTT LAGONDA SQUIRREL SS WHEELER ARDMORE MINERAL TEBO BARTLESVILLE SS ROWE WARSAW MODEL R PACKER AT 850' 23/8" TUBING TO 870' - J55 4 1/2" CASING SET @ 1012' - J55 KINDERHOOK (PERFORATED INTERVAL 890' - 910' DENSITY LOG 1-6-93) TD 1020' 6 1/2" HOLE ECEIVE

INSTRUCTIONS

ON THE ABOVE SPACE DRAW A NEAT, ACCURATE SCHEMATIC DIAGRAM OF THE APPLICANT INJECTION WELL PINCTURING THE FOLLOWING: CONFIGURATION OF WELL HEAD, TOTAL DEPTH OR PLUG BACK TOTAL DEPTH, DEPTH OF ALL INJECTION OR DISPOSAL INTERVALS, AND THEIR FORMATION NAMES. LITHOLOGY OF ALL FORMATIONS PENETRATED, DEPTHS OF THE TOPS AND BOTTOMS OF ALL CASING AND TURING, ZEARLY CASING AND TURING, AND THE TYPE AND DEPTH OF PACKER, DEPTH, LOCATION, AND TYPE OF ALL CEMENT, DEPTH OF ALL PERFORATIONS AND SOURCES OF DRINKING WATER WHICH MAY BE AFFECTED BY THE INJECTION. USE BACK IF ADDITIONAL SPACE IS NEEDED, OR ATTACH SHEET

12:59

Minimum Standards for Property Boundary Surveys adopted by the MISSOURI ASSUMED WEST-EAST SOUTH LINE 22-44-33 CLEAVER AND ASSOCIATES, R.R.2, BOX 42 ATLANTA, MO. 63530 NE Car., SW 1/4, SE 1/422-44-33 hereby certify the survey platted hereon complies with the Current SCALE 1"- 400" WELL REFERENCE TIES IN THE SOUTH 1/2 22-44-33 CASS COUNTY, MO. FOR: PENSE BROTHERS DRILLING CO. INC. Executed this 24th day of Dec. 1992 by order of LEMCO. DEPARTMENT OF NATURAL RESOURCES. Edward A. Cleaver, L.S. 1241 18.08 E. E. 1892.87 SECA., SE 1/4, SW 1/4 22-44-38 ORDER NO.: 2770 CASS COUNTY, MISSOURI PROPOSED SMITH WELL #3 FOUNDIP SECT CENTERL 235 +-9 235 SOUTHLINE SECTION 22-4 S 73 44 41" W 1081.74" £6.6681 4.58 .60 .68 NE Cor., SW 1/4, SW 1/4 22-44-33 The SURVEY Three Cornered Fence STATE OF THE PARTY REGISTERED. 3 1993 2 MO Oil & Gas Council

### ENGINEERING SURVEYS AND SERVICES TESTING LABORATORY

1113 Fay Street • Columbia, Missouri 65201 • (314) 449-2646 802 El Dorado Drive • Jefferson City, Missouri 65101 • (314) 636-3303

Date	21	October	1993	
Lab No	4	1082		

Project:	Smith #3		
Location:	Clifton Hill, Missouri	Date Received:	13 October 1993
Sample No./	7422 / Smith #3		

#### **TEST RESULTS**

PARAMETER SAMPLE NUMBER

METHOD 7422

DETECTION
METHOD 7422

LIMIT

PH, units
Total Dissolved Solids, mg/l

2540 C

18,800

1

Note: Sample secured and delivered to lab by others.

OCT 2 5 1993

MO Oil & Gas Council

1 Wells

CC:

ENGINEERING SURVEYS AND SERVICES
BY:

Ponnott DE

### APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

10		:	IL NATURAL G	AS TOLICT AC	I (NOIA)	
1.0	API well number: (If not assigned, leave blank, 14 digits.)		_	_	_	
2.0	Type of determination being sought: (Use the codes found on the front of this form.)	197, 194.	PRINCIPAL POR	/07	2	
3.0	Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)		Sect	ION OF NGPA	Category Code	
4.0	Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	800 Street	E BROS. DI NEWBERR DERICKTOR	y St., Bo		Seller Code
5.0	Location of this well: [Complete (a) or (b).]  (a) For onshore wells  (35 letters maximum for field name.)  (b) For OCS wells:	Field Na County	me			THE SECTION OF
	(b) For OCS Wells.	Area Ner	Date	of Lease:	Elock Num	ber
	(c) Name and identification number of this well: (35 letters and digits maximum.)	50	Mo.	Day Yr.	OCS Lease Number	
	(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)		annd zeroski		70 301	992
6.0	(a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not		49 10		MO Oil & Ga	s Council
	available, leave blank.) (b) Date of the contract:	Name		The table	MO	Buyer Code
			The second	Mo. Day	l l l	#85 #85
	(c) Estimated total annual production from the well:			inters - the two	Million Cub	ic Feet
	4000 eggs		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7,0	Contract price: (As of filing date. Complete to 3 decimal places.)	  S/MMBTU		,		
	Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU		*****		
9.0	Person responsible for this application:  Agency Use Only	B. Name	E. BLANCE	ETT	ASS.	r. V.P.
Date	Received by Juris. Agency	1	BPBI	ancitt	11118	
Date	Received by FERC	Signature	30/92 Dicetion is Completed		(3/4) 78. Phone Number	3 - 3347
	0.101 (0.00)					

			irks	Remarks		Date /Time	0.1		Received for Laboratory by:	Received for Isignatural		Date / Time		,	Elinquished by: (5-mainre)	hed by:	elinguis
	Date / Time Received by: (Signature)	D		sturel	: (Sign	hed by	Relinquished by: (Signature)		: (Signatura)	Received by: (Signature)		Date / Time			Elinquished by: (Signature)	hed by	elinquis
	Date / Time Received by: (Signature)	0		(esure)	y: (5.ga	shed b	Relinquished by: (Signature)	Van	Signally	130ct 93 11:30 for make 15 money	93 /1:30/m	C+93	130	1	John John Mit	A Page	The state of the s
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	REMARKS		/	//	//	/		CON.				Pagaer	1	-	Jeffing	- 2	
			1	/	/			NO.	6/	#3 Km	Smith	18.	O In	GINC			CAUR
9,	215 Fremont Stree. San Francisco, California 9	d.			ORD	REC	YOUT	CHÁÍNOF CUSTODY RECORD	CHÁÍN				Den's	niorcen	1 3		FR
	215 Fremont Strev			1	ORO	REC	7007	OF CUS		#3 M	Smith		12.	IAME	DECT NAME  CINCO INL. /	PROJECT NAME LEIMCO INE. / Smith #3 Well	PROJ NO. PROJECT NAME

Distribution: Original Accompanies Shipment, Copy to Coordinatur Field Files

#### MECHANICAL INTEGRITY TEST REPORT

Test Date: 12/29/9	3	
Operator: Contact Person: Address: Phone:	Den wells	
Lease South County Cass	Well # 3 Permit # 20557	
TEST INFORMATION:		
Type MIT: Pressure X	Radioactive Tracer Survey Temperat	ure Survey
Start Time: End Time:	Run #1 Run #2	<u>Run #3</u>
Length of Test: (Start Time minus End T		
Initial Pressure (PSI): Ending Pressure (PSI):	650	
Pressure Change: (Initial Pressure minus		
Fluid used for test (wa	ater, nitrogen, co2, ect.): Water	
	ew 11/2 packer put in well isolidated's piping accounts for pressure	before test.
at a depth of	eact Person or Title	ity on the
DO NOT WRITE BELOW THIS	LINE	
Results were: Satisfac State Agent: £ K-A REMARKS:	Witnessed: Yes No	
Computer Update EX	FILE WITH PERMIT!	Misc Form 1



09/07/93

associated electric cooperative, inc.

Thomas Hill Energy Center-Mining Division Rt. 1, Box 110 Clifton Hill, Mo. 65244-9778 (816) 261-4287

SEP 07 1993 TELECOPY COVER PAGE MO Oil & Gas Council DATE: 9-7-93 EUAN KIFER COMPANY: TELEPHONE NUMBER:\_ DON WELLS TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET): SEP 07 1993 TELECOPIER NUMBER (816) 261-4288, MO Oil & Gas Council IF YOU DO NOT RECEIVE ALL PAGES CLEARLY, PLEASE CALL (816) 261-4221 AND ASK FOR:\_\_\_ MESSAGE/SPECIAL INSTRUCTIONS: RESULTS FROM SMITH "3 ISPOSAL INEZLO IF YOU HAVE ANY QUESTIONS EASE CALL, (816) 261-4221 Ext 323

### ENGINEERING SURVEYS AND SERVICES TESTING LABORATORY

1113 Fay Street • Columbia, Missouri 65201 • (314) 449-2646 802 Ei Dorado Drive • Jefferson City, Missouri 65101 • (314) 636-3303 Date 01 September 1993

4082 Lab No.\_\_\_\_

Project:	Smith #3		
Location:	Clifton Hill, Missouri	Data Basaluad	25 August 1993
Sample No./	- And An Association (Association (Associati	Date Received:	illikali kilonassa samanappojiji jiikitiilii kalainin opyys <u>alainin illikali kalainin opyysiä mahi</u> otyyten
	6759 / Smith #3		
			anne specialist in the fire-mark specialists of the temperature of the specialists and the specialists of th
		and the same of th	
		PP (BBHI) dada arana aran a 1 mjagasa BBA BBA BBA BBA BBA aran ay 1995 ah BB ahiib ahii arana aran ay 1996 ah BBA aran ay 1996 aran	HARRI Mahinda assessor qoʻridda dilikan sasqi qaraktiridda dada a sassiqir qorqoti at atalas qoʻrqan sa
-			
TEST RESULT	27		

PARAMETER

Total Dissolved Solids, mg/l

pH, units

SAMPLE NUMBER

METHOD 6759 DETECTION LIMIT

4500-H B 6.1 2540 C 23,100 1

Note: Sample secured and delivered to lab by others.

SEP 0 7 1993

MO Oil & Gas Council

1 Wells

ENGINEERING SURVEYS AND SERVICES

BY:

David A. Bennett, P.E.

CC:

#### **ENGINEERING SURVEYS AND SERVICES TESTING LABORATORY**

1113 Fay Street • Columbia, Missouri 65201 • (314) 449-2646 802 El Dorado Drive • Jefferson City, Missouri 65101 • (314) 636-3303

19 July 1993 Date\_ 4082 Lab No .\_

Project:	Smith #3		and the second s
Location:	Clifton Hill, Missouri	Date Received:	13 July 1993
Sample No./	6030 / Smith #3, 7/5/93		

#### TEST RESULTS

PARAMETER

SAMPLE NUMBER

DETECTION

METHOD

6030

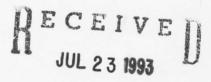
LIMIT

Total Dissolved Solids, mg/l pH, units

2540 C 4500-H B

1,930 5.8

Note: Sample secured and delivered to lab by others.



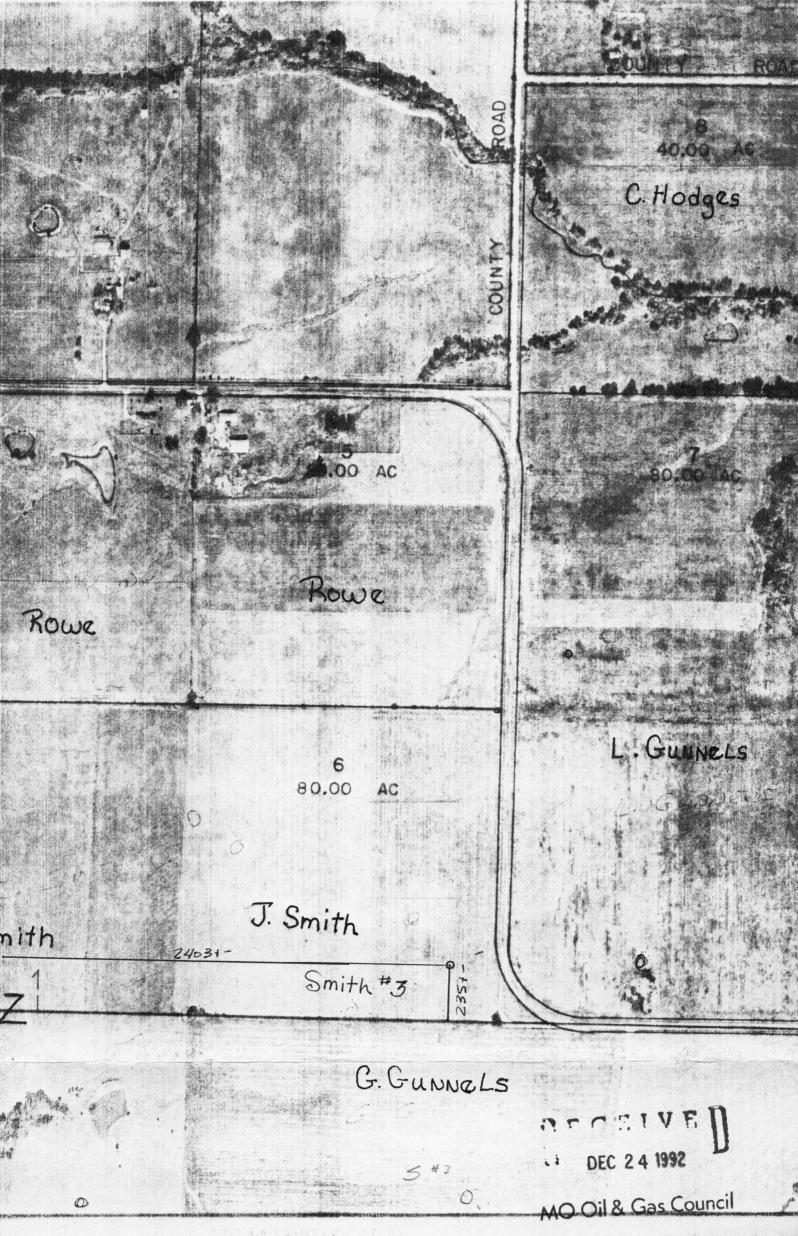
MO Oil & Gas Counc'

Method number from Standard Methods for the Examination of Water & Wastewater, 18th Edition, unless otherwise noted.

1 Wells

CC:

ENGINEERING SURVEYS AND SERVICES



MAP SHEET MIDEX